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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/826,662	04/05/2001	Prasad R. Vishnubhotla	AUS920010258US1	AUS920010258US1 3497	
34533	7590 06/16/2003				
BIGGERS & OHANIAN, PLLC			EXAMINER		
5 SCARLET AUSTIN, TX			PHAM, KHANH B		
	•		ART UNIT	PAPER NUMBER	
			2177	3	
			DATE MAILED: 06/16/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		09/826,662	VISHNUBHOTLA, PRASAD R				
		Examin r	Art Unit				
		Khanh B. Pham	2177				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)🖂	Responsive to communication(s) filed on <u>05 A</u>	<u>pril 2001</u> .					
2a)□		s action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠	Claim(s) <u>1-60</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-60</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers							
9)⊠ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
2) Notice	Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152) Information Disclosure Statement(s) (PTO-1449) Paper No(s)						
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DETAILED ACTION

Specification

1. Claim 8 is objected to because of the following informalities: duplicate word "a" and misspelled word "usiness" at line 3 of claim 8. Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-60 are rejected under 35 U.S.C. 102(e) as being anticipated by Tamayo et al. (US 2002/0083067 A1), hereinafter referred to as "Tamayo".

As per claim 1, Tamayo teaches a method of developing a domain-specific analytic application having at least one predefined data mining model, comprising the steps of:

- "identifying a business problem to be solved" at page 5, [0059];
- "selecting a data mining algorithm appropriate for solving the business problem" at page 5, [0059];

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 "defining data schema for use as inputs and outputs to and from the mining algorithm, the data schema including input data schema and output data schema" at page 5, [0059];

 "defining a data mining model dependent upon the data schema, defining a data mining model resulting in the creation of a predefined data mining model, whereby a domain-specific analytic application is developed, the analytic application having at least one predefined data mining model" at page 7-8, [0094].

As per claim 2, Tamayo teaches the method of claim 1 wherein the analytic application comprises the capabilities of:

- production training the predefined data mining model using the historical data in the input data schema, wherein use of the capability of production training the predefined data mining model results in creation of a production trained data mining model" at page 6, [0084];
- "and production scoring production data by use of the production trained data mining model" at page 6, [0073].

As per claim 3, Tamayo teaches the method of claim 2 wherein "the capability of production training the predefined data mining model further comprises the capability of operating the predefined data mining model in training mode using end user historical data in the input data schema" at page 6, [0084].

As per claim 4, Tamayo teaches the method of claim 2 wherein "the capability of production scoring production data by use of the production trained data mining model further comprises the capability of applying the production trained data mining model to historical data stored in input schema" at page 6, [0084].

As per claim 5, Tamayo teaches the method of claim 2 wherein "the capability of production scoring production data by use of the production trained data mining model further comprises the capability of applying the production trained data mining model to production data stored read from an end user's production database" at page 7-8, [0094].

As per claim 6, Tamayo teaches the method of claim 1 wherein "the analytic application further comprises the capability of populating the input data schema with historical data" at page 6, [0081]-[0082].

As per claim 7, Tamayo teaches the method of claim 6 wherein "the capability of populating the input data schema with historical data further comprises the capabilities of extracting from historical data values of prediction data fields and writing the values of the prediction data fields into the input data schema for the data mining model" at page 6, [0081]-[0082].

As per claim 8, Tamayo teaches the method of claim 1 wherein "identifying a business problem to be solved further comprises identifying a business problem capable of expression through the use of referents that are defined in a specific computational domain" at page 5, [0059].

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As per claim 9, Tamayo teaches the method of claim 1 wherein "selecting a mining algorithm appropriate for solving the business problem further comprises selecting a radial basis function algorithm for value prediction" at 10, [0114].

As per claim 10, Tamayo teaches the method of claim 1 wherein "selecting a mining algorithm appropriate for solving the business problem further comprises selecting a neural value prediction algorithm" at page 5, [0059].

As per claim 11, Tamayo teaches the method of claim 1 wherein "selecting a mining algorithm appropriate for solving the business problem further comprises selecting a demographic clustering algorithm" at page 5, [0059].

As per claim 12, Tamayo teaches the method of claim 1 wherein "selecting a mining algorithm appropriate for solving the business problem further comprises selecting a neural clustering algorithm" at page 5, [0059].

As per claim 13, Tamayo teaches the method of claim 1 wherein "selecting a mining algorithm appropriate for solving the business problem further comprises selecting a tree classification algorithm" at page 5, [0059].

As per claim 14, Tamayo teaches the method of claim 1 wherein "selecting a mining algorithm appropriate for solving the business problem further comprises selecting a neural classification algorithm" at page 5, [0059].



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As per claim 15, Tamayo teaches the method of claim 1 wherein "selecting a mining algorithm appropriate for solving the business problem further comprises selecting an associations algorithm" at page 5, [0059].

As per claim 16, Tamayo teaches the method of claim 1 wherein "defining data schema for the mining algorithm further comprises the steps of: selecting from historical data for inclusion in input data schema predictor fields capable of supporting the use of a data mining algorithm in predicting the value of a prediction field; and selecting for inclusion in output data schema at least one prediction field" at page 6, [0081]-[0082].

As per claim 17, Tamayo teaches the method of claim 1 wherein "defining data schema for the mining algorithm further comprises selecting for inclusion in output schema sufficient key fields to comprise a unique key for identification in production data of storage locations for the output data from the data mining algorithm" at page 15, [0219].

As per claim 18, Tamayo teaches the method of claim 1 wherein "defining a data mining model based on the data schema further comprises establishing in a data structure comprising the data mining model definition values for fields defining the model" at page 14, [0173-0207]].

As per claim 19, Tamayo teaches the method of claim 18 wherein fields defining the model comprise:



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- "a field representing the number of consecutive records to select from the input data schema to be used for training" at page 10, [0114];
- "a field representing the number of consecutive records to select from the input data schema to be used for development scoring" at page 12, [0152];
- "a field limiting the number of times the data mining model goes through its input data in training mode" at page 12, [0148];
- "a field limiting the number of fitting centers created by the mining data mining algorithm at each pass through the input data" at page 11, [0128]-[0136];
- "a field indicating the minimum number of records to be assigned to a region" at
 Col. 12, [0151];
- "a field identifying at least one predictor field; and a field identifying a prediction field" at page 12, [0146].

As per claim 20, Tamayo teaches the method of claim 1 wherein defining a data mining model based on the data schema further comprises the steps of:

- "establishing in a data structure comprising the data mining model definition
 values for fields defining the model" at page 10, [0114];
- "development scoring historical data wherein test output data is created; and testing the test output data for accuracy wherein an accuracy valuation is created" at page 6, [0071]-[0073];



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 "wherein the steps of establishing definition values, development scoring, and testing are repeated until the accuracy valuation meets a predetermined accuracy requirement" at page 10, [0125].

Claims 21-40 recite "a system" comprising means similar to the method of claims 1-20. Therefore, claims 21-40 are rejected by the same rational as stated in the rejection of claims 1-20 above.

Claims 41-60 recite "a computer program product" comprising means similar to the method of claims 1-20. Therefore, claims 41-60 are rejected by the same rational as stated in the rejection of claims 1-20 above.

Conclusion

4. The prior art made of record, listed on form PTO-892, and not relied upon, if any, is considered pertinent to applicant's disclosure.

If a reference indicated as being mailed on PTO-FORM 892 has not been enclosed in this action, please contact Lisa Craney whose telephone number is (703) 305-9601 for faster service.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh B. Pham whose telephone number is (703) 308-7299. The examiner can normally be reached on Monday through Friday 7:30am to 4:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E Breene can be reached on (703) 305-9790. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7239 for regular communications and (703) 746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)746-7240.

Khanh B. Pham Examiner Art Unit 2177

KBP June 3, 2003

